

US-Claims

AGR 2000/M 208

1. A combination of at least one agrochemically active compound having cationic functional groups with an anionic polymer with formation of electrostatic interactions between these components.
2. The combination as claimed in claim 1, wherein the active compound is selected from the group consisting of herbicides, fungicides, insecticides, growth regulators, safeners, acaricides, molluscicides and nematocides, in particular from the group consisting of herbicides, safeners and plant growth regulators.
3. The combination as claimed in claim 2, wherein the herbicides are selected from the group consisting of glufosinate, glyphosate, paraquat, diquat, difenzoquat, metilsulfat, mepiquat, chlormequat and bialaphos and also quaternized forms, which are known per se, of these active compounds.
4. The combination as claimed in claim 3, wherein the polymer is soluble, dispersible and/or emulsifiable in water and/or organic solvents, preferably in polar protic and/or polar aprotic organic solvents and/or water, most preferably in water, and has an absorption rate or penetration rate of < 50% in 24 h.
5. The combination as claimed in claim 1, wherein the molecular weight M_N of the polymer is ≥ 500 , preferably about 1 000 to 1 000 000, and the polymer is employed in a weight ratio to the active compound of from about 0.001:1 to about 1:0.001, preferably from 0.01:1 to 1:0.01, most preferably from 0.1:1 to 1:0.1.
6. The combination as claimed in claim 1, wherein the polymer has functional groups selected from carboxylate, sulfonate, sulfate or phosphonate groups, preferably from the group consisting of polyacrylates, polymethacrylates,

sulfonated lignin, sulfated lignin, polyvinyl acetate, polycarbonates, polyesters, polyaspartates, phospholipids, polysaccharides and silicates.

7. A formulation, comprising a combination as claimed in claim 1 and at least one further component from the group consisting of further agrochemically active compounds, surfactants, fertilizers and customary adjuvants.
8. The formulation as claimed in claim 7, wherein a combination of a herbicide and an oligo- or polymer is present together with a safener and/or a growth regulator.
9. The use of a combination as claimed in claim 1 or of a formulation as claimed in claim 7 or 8 for suppressing antagonistic interactions during the application of one or more agrochemically active compounds for controlling harmful plants.
10. The use of a combination as claimed in claim 1 or of a formulation as claimed in claim 8 or 9 for increasing crop selectivity during the application of one or more agrochemically active compounds for controlling harmful plants.
11. A method for controlling harmful organisms, in particular harmful plants, which comprises applying in a manner known per se a combination as claimed in claim 1 or a formulation as claimed in claim 9 or 10.
12. A process for preparing a combination as claimed in claim 1 or a formulation as claimed in claim 8 or 9, which comprises combining the active compound by customary processes which are known per se, preferably by dissolving, stirring or mixing, with a suitable polymer, and introducing this combination into the formulation, if appropriate with other active compounds, adjuvants and additives.